

1 Attorney Docket No. 80002

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3 METHOD AND SYSTEM FOR PRODUCTION OF FIBROUS COMPOSITE PROTOTYPES

4 USING ACOUSTIC MANIPULATION IN STEREOLITHOGRAPHY

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6 ABSTRACT OF THE DISCLOSURE

7 A method for producing a three-dimensional object by

8 stereolithography. A solid reinforcing material is mixed with

9 the fluid medium so that at least a part of said solid

10 reinforcing medium is located in the layer of the fluid medium

11 between the top surface of the most recently formed lamina and

12 the top surface of the fluid medium. An acoustic field is then

13 established in the fluid medium such that this acoustic field

14 exists in at least part of the layer of the fluid medium between

15 the top surface of the most recently formed lamina and the top

16 surface of the fluid medium. The solid reinforcing material is

17 thereby moved with said acoustic force field. A three-

18 dimensional reinforced object is thereby produced.